

L 5268-65 FBD/EWT(1)/PCS(k) 0W/NS-2/WR  
ACCESSION NR: AP5022800

UR/0141/65/008/004/0768/0770  
621.396.677.497.523.164

AUTHOR: Origor'yay, G. I.; Koyner, M. B.; Nikiforova, O. G.; Obolenskiy, L. M.;  
Sergomov, A. V.; Trekhtengertse, V. Yu.

TITLE: Logarithmic-periodic helical exciter for a paraboloid with 1:7 frequency coverage

SOURCE: IVUZ. Radiofizika, v. 8, no. 4, 1965, 768-770

TOPIC TAGS: antenna directivity, conic antenna, antenna polarization, radio telescope antenna

ABSTRACT: The authors present the results of tests on a model of a broadband exciter for the 15-meter paraboloid of the Zimenki radio telescope. The model scale was 1:10. The reflector used was a parabolic cylinder with focal distance 0.525 m, height 1 m, and aperture D = 1.5 m. The exciter was a conical bifilar-wound cable helix with vertex angle 90° and pitch angle 7°. The vertex of the cone was at the focus of the paraboloid. The directional pattern and the standing wave ratio of the system were measured in the range  $1.5 < D/\lambda < 10$ , where  $\lambda$  is the working wavelength. The results are shown in Fig. 1 of the Enclosure. The fact that a directivity angle of 10° can be obtained with  $D/\lambda$  close to 2 is taken as an indi-

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cation that such a system can ensure high directivity with small antenna dimensions. It is emphasized, however, that no final conclusions can be drawn until phase-distribution measurements are made. The results for horizontally polarized radiation differ little from those for vertical polarization, except that side lobes appear at some frequencies. "The authors thank Yu. M. Zhidko for a discussion of the results." Orig. art.has: 2 figures. 11/55 [02]

ASSOCIATION: Gor'kovskiy gosudarstvennyy universitet (Gor'kiy State University) 44

SUBMITTED: 08Jul64

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ATT PRESS: 4137

Card 2/2

L 14192-66 EWT(1)/FCC/EWA(h) GW

ACC NR: AP6002757

SOURCE CODE: UR/0203/65/005/006/1103/1105

AUTHOR: Trakhtengerts, V. Yu.

ORG: Radio Physics Institute, Gor'kiy State University (Radiofizicheskiy institut pri Gor'kovskom gosudarstvennom universitete)

TITLE: Kinetic instability of the earth's outer radiation zone

SOURCE: Geomagnetizm i aeronomiya, v. 5, no. 6, 1965, 1103-1105

TOPIC TAGS: radiation belt, electron distribution

ABSTRACT: A formula is given for velocity distribution of electrons in the outer radiation belt of the earth. The author considers the kinetic instability of this distribution with respect to ultralow frequency radiation. It is found that when the distribution function for electrons in the outer radiation belt is anisotropic, which is typical for magnetically disturbed periods, comparatively small flux densities result in kinetic instability which causes intense diffusion of electrons in the cone of losses with a characteristic time of approximately one hour. The results indicate that kinetic instability may play an important role in the dynamics

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UDC: 538.691

L 14192-66

ACC NR: AP6002757

of the entire outer radiation belt of the earth. Orig. art. has: 12 formulas.

SUB CODE: 08/ SUBM DATE: 31May65/ ORIG REF: 005/ OTH REF: 004

Card 2/2

TRAKHTER, A.S.; TREPELKOVА, L.I.; PALEY, M.I.

Cold-hardening adhesive for gluing polyvinylchloride plastics  
to themselves and to other materials. Plast.massy no.8:64-67  
'62. (MIRA 15:7)  
(Plastics) (Adhesives)

TRAKHTER, B.S.; GARCHENKO, V.T.; GILLER, I.Ye.; SHAROPIN, V.D., redaktor;  
MIKHAYLOV, O.A., redaktor; PETROVA, N.S., tekhnicheskiy redaktor.

[Operation cycle regulation in an open-hearth process plant] Regla-  
mentirovannyj rezhim raboty martenovskogo tschka. Moskva, Gos.  
nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954.  
83 p. (MLRA 8:1)

(Steel industry) (Industrial management)

TRAKHTER, B.S.

KULINOK, Ye.A.; TRAKHTER, B.S., red.; YABLONSKAYA, L.V., red.izd-va;  
PETROVA, N.S., tekhn.red.

[Masonry work in blast and open-hearth furnaces; a manual for schools  
and courses for foremen] Kladka domennykh i martenovskikh pechei;  
uchebnoe posobie dlia shkol i kursov masterov. Moskva, Gos.nauchno-  
tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1958. 217 p.

(MIRA 11:7)

(Open-hearth furnaces)

(Blast furnaces)

(Masonry)

Trakhter, B.S.

Call Nr AF: 1141885

AUTHOR: See Table of Contents

TITLE: Blast Furnace Practice (Domennoye proizvodstvo.)  
Collected Articles (Sbornik Statey).

PUB.DATA: Gosudarstvennoye nauchno-tehnicheskoye izdatel'stvo  
literatury po chernoy i tsvetnoy metallurgii, Moscow,  
1957, 140 pp. 3,000 copies

ORIG. AGENCY: None

EDITOR: Trakhter, B.S.; Ed. of the Publishing House;  
Rozentsveyg, Ya.D.; Tech.Ed.: Mikhaylova, V.V.

PURPOSE: See Table of Contents.

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Blast Furnace Practice (Cont.)

Call Nr AF: 1141885

COVERAGE: The book deals with Russian contributions. For references and personalities, see Table of Contents.

TABLE OF CONTENTS: 1. Manchinskiy, V.G., and Antonov, V.G., Eng., Hydrogen and Carbon Monoxide Reduction of Iron Ores Under High Pressure. 3-19

The authors mention in the text: A.P. Lyuban, Professor at the Leningrad Polytechnical Institute im. Kalinin; M.Ya. Ostroukhov, Candidate of Techn.Sc.; V.A. Anikayev, A.S. Melent'yev; A.M. Tsvetov; Ye.P. Tatiyevskaya; G.I. Chufarov; V.I. Karmazin. The experiments described in the article were carried out in the Laboratory of Cast-Iron Metallurgy at the Leningrad Polytechnical Institute im. Kalinin. There are 12 references, 5 of which are Russian, 4 German, 3 American.

Card 2/7

Blast Furnace Practice (Cont.)

Call Nr AF: 1141885

2. Litvinova, T.I., Candidate of Techn.Sc.  
Mineralogical Composition of Iron-Limestone  
Sinters. 20-37

The personalities mentioned in the text are:  
V.Ya. Miller; Ye.I. Kaminskaya; N.A. Yarkho;  
N.M. Yakubtsiner; V.Ye. Ioffe; A.N. Pokhvistnev;  
M.S. Goncharevskiy, N. S. Snagovskaya. The  
facilities mentioned are: Central Laboratory of  
the "Zaporozhstal'" Works. The single reference  
given by the author is Russian.

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Blast Furnace Practice (Cont.)

Call Nr AF: 1141885

3. Sigov, A.A., Candidate of Techn.Sc., Red'ko, Yu., Eng. Percent Excess Air in Sintering Krivoy Rog Iron Ores with Suction Fans of Different Capacities. 38-55

The personalities mentioned by the authors are: S.T. Rostovtsev; A.M. Parfenov; A.N. Machkovskiy; A.P. Nikolayev; T.A. Kramnik. The facilities mentioned are: Sintering Laboratory of the Kiev Polytechnical Institute and the Plant im. Dzerzhinsky. There are 7 references, all Russian.

4. Soldatkin, A.I., Docent, Candidate of Techn.Sc. Reduction of Manganese in Sinters by Carbon. 56-72

The personalities mentioned in the text are: A.P. Lyuban and M.M. Leybovich. No facilities are mentioned. There are 9 references, 5 of which are USSR, 4 German.

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Blast Furnace Practice (Cont.)

Call Nr AF: 1141885

5. Konovalov, V.V., Docent, Candidate in Techn.Sc.  
Krivoy Rog Iron Ore Fines for Sintering. 74-88

The following personalities are mentioned:  
K.I. Bogdanovich, Junior Research Associate;  
A.K. Rudkov, Eng. No facilities are mentioned.  
There are no references.

6. Galemin, I.M., Docent, Candidate of Techn.Sc.  
Gas Permeability of the Different Sections of the  
Shaft Material Column. 89-99

The author mentions in the text only one personality, namely, A.D. Gotlib, Professor, Doctor of Technical Sciences. No facilities are mentioned. There are 2 references, both of which are Russian.

Card 5/7

Blast Furnace Practice (Cont.)

Call Nr AF: 1141885

7. Gulyga, D.V., Engineer. Coke Combustion in the Large Blast Furnace. 100-111

The only personality mentioned by the author in the text is V.T. Basov. Only one facility is mentioned: the blast furnaces of the "Azovstal". There are 5 references, all of which are Russian.

8. Ostroukhov, M.Ya., Candidate of Technical Sciences. Heat Exchange in the Blast Furnace. 112-120

The following personalities are mentioned in the text: B.I. Kitayev; Kinni, M.A. Pavlov, Academician. The author names the following facilities: Furnace No.1 of the Magnitogorskiy zavod; Furnace No.4 of the Yuzhnyy zavod; Novo-Tagil'skiy zavod; Kuznetskiy metallurgicheskiy zavod; Serovskiy zavod. There are 6 references, 5 of which are Russian, 1 American.

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Call Nr AF: 1141885

Blast Furnace Practice (Cont.)

9. Soldatkin, A.I., Docent, Candidate of Techn.Sc.  
Hydrogen Reduction of the Higher Manganese Oxides  
in Sinters and in Manganese Ore. 121-141

The author mentions the following personalities  
in the text: E.P. Tatiyevskaya; G.I. Chufarov;  
V.K. Antonov; A.N. Pokhvisnev; M.S. Goncharevskiy;  
V.G. Manchinskiy; P. Kanibolotskiy. The author  
mentions no facilities. There are 9 references,  
8 of which are Russian.

Card 7/7

POPOV, L.V., inzh.; TRAKHTER, L.P., inzh.; YURCHUK, V.A., inzh.

Networks for the electric power supply of oil fields. Prom.energ.  
17 no.5:45-46 My '62. (MIRA 15:5)  
(Electric power distribution) (Oil fields)

PATKOVSKIY, Andrey Borisovich; TRAKHTER, V.S., redaktor; SHAROPIN, V.D.,  
redaktor; ATTOPOVICH, M.K., tekhnicheskiy redaktor.

[Ferrous metallurgy sintering plants] Agglomeratsionnye fabriki  
chernoi metallurgii. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po  
chernoi i tsvetnoi metallurgii, 1954. 238 p. (MIRA 8:1)  
(Metallurgical plants)

TRAKHTEROV, G. L.

Author: Trakhterov, G. L.

Title: Casting of Articles from Aluminum Alloys in Chill Molds. Ed. by A. G. Spasskii  
165 pp., illus.

Date: 1945. Moscow

Subject: 1. Aluminum Founding. 2. Aluminum Alloys.

Available: Library of Congress, Call No: TS555.168

Source: Lib. of Cong. Subj. Cat., 1950

TRAKHTEROV, G. L.

Author: Trakhterov, G. L.

Title: Casting of Articles from Aluminum Alloys on CMM. Nolka, M., et al. 1970, 1971  
1/6 pp., illus.

Date: 1970. Russia

Subject: 1. Aluminum Foundry. 2. Aluminum Alloys.

Library: Library of Congress, Call No. T055.566

Review: Lib. of Cong. Eng. Ser., Oct., 1970

TRAKHTMAN, B.D.

Adjustment in cogging mills. Metallurg no.5:32-33 My '56.  
(MLRA 9:9)

1.Zamestitel' nachal'nika obzhimnogo tsekha po ad'yustazhu  
Magnitogorskogo metallurgicheskogo kombinata.  
(Rolling (Metalwerk))

TRAKHTMAN, B.N.

GHYAZEV, N.N., kandidat khimicheskikh nauk; RAKHOVSKAYA, S.M., inzhener;  
TRAKHTMAN, B.N., inzhener.

Volga region diatomites as adsorbents for continuous recovery  
of transformer oil. Elek.sta. 25 no.12:33-34 D '54. (MLRA 7:12)  
(Diatomaceous earth) (Insulating oils)

TRAKHTMAN, I.M.; IONFE, A.B.; CHERNYY, M.I.; YUZNFTSOV, S.M.; SOLOV'YEV, N.  
P.; DOROGUSH, G.I.; KAFUSTIN, L.D.; VINBFRC, B.G.; RUECHINSKIY, Z.  
M.; PETRO, G.A.; ZAGORDAN, N.M.; BRAVIN, V.F.

Multiple-unit rail car with regenerative braking. Prom. energr. 15  
(MIRA 14:9)  
no.11:18-19 N '60.  
(Railroad motorcars) (Electric railway motors)

SOV/137 59-2 1545 K

Translation from: Referativnyy zhurnal Metallurgiya, 1959, Nr 2 p 16 (USSR)

AUTHOR: Trakhtman, L. D.

TITLE: Apparatus for Automatically-dispatching Remote Control of Open hearth Furnace Operation. Report at the Meetings of the Electrotechnical, Steel-smelting, and Economic Sections of the Society (Ustanovka dlya avtomaticheskogo despetcherskogo telekontrola za rabotoy martenovskoy pechi. Doklad na zasedaniyakh elektrotekhn. stale plavil'noy i ekon. sektsiy o-va)

PERIODICAL: Ukr. resp. pravl. Nauchno-tekhn. o-va chernoy metallurgii. Dnepropetrovsk. 1957 (1958). 25 pp. ill. free.

ABSTRACT: Bibliographic entry

Card 1/1

TRAKHTMAN, Lev Davidovich; OL'SHANSKAYA, I.V., inzh., ved. red.;  
RAZGON, V.N., inzh., red.; SOROKINA, T.M., tekhn. red.

[Remote control arrangement in an open-hearth furnace plant]  
Telemekhanicheskoe ustroistvo v martenovskom tsekhe. Moskva,  
Filial Vses. in-ta nauchn. i tekhn. informatsii, 1958. 27 p.  
(Perevodoi nauchno-tekhnicheskii i proizvodstvennyi opyt.  
(MIRA 16:3)  
Tema 1. No.M-58-176/3)  
(Open-hearth furnaces--Equipment and supplies)  
(Remote control)

TRAKHTMAN, R. F.

Electrical Engineering  
Abst.  
Section B  
March 1954  
Traction.

621. A method for determining voltage oscillations  
in traction systems. L. M. TRAKHTMAN. Elek-  
trichesia, 1953, No. 9, 347. In Russian

The existing methods of calculating the voltage of  
traction systems do not take into account the relation  
between loading conditions and voltage. A graphical  
method of determining the voltage at various points  
of the system, considering the external characteristics  
of the traction motors is presented. The method  
enables in particular the voltage oscillations to be  
determined easily during recuperative braking. This  
is shown by several examples.

B. F. KRAUS

YEFREMOV, I.S.; MARKOVNIKOV, V.L.; PAL'KEVICH, B.S., professor, doktor tekhnicheskikh nauk, rezesent; TRAKHTMAN, L.M., kandidat tekhnicheskikh nauk, dotsent; KLENNIKOV, V.N., inzhener, redaktor.

[Trolley buses; design and calculation] Trolleybusy; konstruktsiya i raschet. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. i sudostroit. lit-ry, 1954. 379 p.  
(Trolley buses) (MLRA 7:6)

TRAKHMAN, L.M.

YEFREMOV, I.S.; MARKOVNIKOV, V.L., kandidat tekhnicheskikh nauk, retsent; KLENNIKOV, V.M., inzhener, nauchnyy redaktor; TRAKHTMAN, L.M., kandidat tekhnicheskikh nauk, nauchnyy redaktor; IOFFE, N.L., redaktor izdatel'stva; GUHOVA, O.A., tekhnicheskiy redaktor.

[Trolley buses; principles of theory, design and calculations]  
Trolleybusy; osnovy teorii, konstruktsii i rascheta. Moskva, Izd-vo Ministerstva kommunal'nogo khoziaistva RSFSR, 1954. 479 p.  
(Trolley buses)

(MIRA 7:11)

*MAN*  
T. Trakhtman, L. M.

Medel', V. B.  
Shlikhto, P. N.  
Zakharchenko, D. D.  
Tikhmenev, B. N.  
Trakhtman, L. M.  
Zorokhovich, A. Ye.  
Krylov, S. K.

"Electric Railroad Rolling Stock"(textbook  
3 vols)

Moscow Electromechanical  
Institute of Railroad  
Engineers imeni  
F E. Dzerzhinsky

TRAKHTMAN, L. M.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Trakhtman, L. M.	"Rolling Stock of Electric Railroads" (textbook, 3 vol)	Moscow Electromechanical Institute of Railroad Engineers imeni F. E. Dzerzhinskiy

80: W-30604, 7 July 1954

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APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001756430001-4"

BATALOV, Nikolay Mikhaylovich; TRAKHTMAN, Leonid Mironovich; STEPANOV, A.D., kand.tekhn.nauk, ratsenzent; BYCHKOVSKIY, A.V., kand.tekhn. nauk, red.; TIKHONOV, A.Ya., tekhn.red.

[Handbook on electrical equipment in railroad rolling stock]  
Spravochnik po tiagovomu elektrooborudovaniyu zheleznodorozhного podvishnogo sostava. Moskva, Gos.nauchno-tekhn.izd-vo mashino-stroit.lit-ry, 1956. 159 p. (MIRA 12:8)  
(Railroads--Electric equipment)

TRAKHTMAN, L.M., kandidat tekhnicheskikh nauk, redaktor; KALININ, V.K.,  
redaktor; KHITROW, P.A., tekhnicheskiy redaktor

[Electric locomotives on a single-phase current of industrial  
frequency] Elektrovozy odnofaznogo toka promyshlennoi chastoty.  
Moskva, Gos. transp. zhel-dor. izd-vo, 1956. 183 p. (MLRA 9:10)  
(Electric locomotives)

SOV/112-57-9-18861

Translation from: Referativnyy zhurnal, Elektrotehnika, 1957, Nr 9, p 120 (USSR)  
AUTHOR: Trakhtman, L. M.

TITLE: Modern Commercial-Frequency AC Electric Locomotives and Electric  
Motor Cars (Sovremennyye elektrovozy i motornyye vagony peremennogo  
toka promyshlennoy chastoty)

PERIODICAL: V sb.: Elektrovozy odnofaz. toka prom. chastoty, M., 1956,  
pp 4-36

ABSTRACT: This is a survey and an analysis of the development and adoption of electrified  
railroad transportation in various countries using DC and AC with 16-2/3 and  
25 cps. A trend is noted over the last few years in France, West Germany,  
England and other countries to adopt the normal-frequency AC system, particu-  
larly after the favorable results obtained from trial operation of this system in  
France. The problem is treated of selecting an electric locomotive system:  
(a) with a single-phase spinner motor; (b) with a single-to-3-phase conversion;  
(c) with commutator motors; (d) with single-phase-to-DC conversion with

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SOV/112-57-9-18861

**Modern Commercial-Frequency AC Electric Locomotives and Electric Motor Cars**

multi-anode pumped rectifiers. Tables are presented with technical data on 50-cps AC electric locomotives of various types used in French railroads. A detailed analysis is given of performance of four different 50-cps AC electric locomotives used on the Valencienne - Thionville line: Co-Co with a rotary single-phase-to-DC and a single-phase-to-3-phase converter; Bo-Bo with single-phase commutator motors and ignitron rectifiers. Rectifier-type electric locomotives are compared with rotary-converter types. A detailed analysis and a description are given of railroad electrification in the U.S.A. and the types of electric locomotives used (single-phase-to-3-phase and single-phase-to-DC with motor-generators); also, grounds are reported for the selection and wide adoption of a 25-cps, 11-kv single-phase-DC locomotive with a motor-generator. A trend in the U.S.A. is noted to reconsider the prevailing viewpoint about the advantages of Diesel traction over electric traction. A survey of commercial-frequency AC electric motorcars is presented. There are two practically acceptable types of 50-cps motorcars:

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SOV/112-57-9-18861

Modern Commercial-Frequency AC Electric Locomotives and Electric Motor Cars  
with a single-phase-DC with a rectifier, and with a 50-cps commutator motor.  
Ignitron-type motorcars for the New York-New Haven railroad and some  
others are described. A table is presented with technical data of modern  
foreign motor-car sections with commutator 50-cps motors. Advantages of  
dry rectifiers are noted.

Ya. M. V.

Card 3/3

ROSENFEL'D, Vitaliy Yevgen'yevich; CHEBOTAREV, Yevgeniy Viktorovich;  
SIDOROV, Nikolay Nikolayevich; BOLDOV, Nikolay Andreyevich;  
TRAKHTMAN, L.M., red.; FRIDKIN, A.M., tekhn.red.

[Principles of electric traction] Osnovy elektricheskoi tiagi.  
Moskva, Gos.energ.izd-vo. Pt.1. [Theory of train movement, traction  
and braking characteristics, traction calculations and testing]  
Teoriia dvizheniya poezda, tiagovye i tormoznye kharakteristiki,  
tiagovye raschety i isnytaniia. 1957. 311 p. (MIRA 10:12)  
(Electric railroads)

ZAKHARCHENKO, D.D., dotsent, kandidat tekhnicheskikh nauk; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk; KALININ, V.K., inzhener; KREST'YANOV, M.Ye., dotsent, kandidat tekhnicheskikh nauk; LAKSHTOVSKIY, I.A., dotsent, kandidat tekhnicheskikh nauk; MARIKVARDT, K.G., professor, doktor tekhnicheskikh nauk; MEDVEL', V.B., professor, doktor tekhnicheskikh nauk; MIRONOV, K.A., inzhener; MIKHAYLOV, N.M., dotsent, kandidat tekhnicheskikh nauk; NAKHODKIN, M.D., dotsent, kandidat tekhnicheskikh nauk; OZEMBLOVSKIY, Ch.S., inzhener; OSIPOV, S.I., inzhener; ROMASHKOV, S.G., inzhener; SOKOLOV, L.S., inzhener; YAHINSKIY, G.V., kandidat tekhnicheskikh nauk; SHATSILLO, A.A., inzhener; SHLYAKHTO, P.N., dotsent, kandidat tekhnicheskikh nauk; BOVE, Ye.G., kandidat tekhnicheskikh nauk, retsensent; PERTSOVSKIY, L.M., inzhener, retsensent; ALEKSNYEV, A.Ye., professor, doktor tekhnicheskikh nauk, retsensent; RATALOV, N.M., inzhener, retsensent; VINEHMEG, B.N., inzhener, retsensent; GRACHEVA, L.O., kandidat tekhnicheskikh nauk, retsensent; YEVDOKIMOV, A.M., inzhener, retsensent; KALININ, S.S., inzhener, retsensent; TRAKHTMAN, L.M., kandidat tekhnicheskikh nauk, retsensent; PYLIMOV, A.P., inzhener, retsensent; GOKHSHTEIN, B.Ya., kandidat tekhnicheskikh nauk, retsensent; IL'IN, I.P., inzhener, retsensent; NAKHODKIN, M.D., dotsent, kandidat tekhnicheskikh nauk, retsensent; TISHCHENKO, A.I., otvetstvennyy redaktor; BEMSHCHEVICH, I.I., kandidat tekhnicheskikh nauk, redaktor; ZOROKHOVICH, A.Ye., dotsent kandidat tekhnicheskikh nauk, redaktor; LUTSENKO, Ye.G., inzhener, redaktor; BOGOZHIN, A.P., inzhener, redaktor; SIDOROV, N.I., inzhener, redaktor; VERINA, G.P., tekhnicheskiy redaktor

(Continued on next card)

ZAKHARCHENKO, D.D.---(continued) Card 2.

[Technical manual for railroad workers] Tekhnicheskii  
spravochnik zheleznych dorozhnikov. Red. kollegija R.G. Granovskii  
i dr. Moskva, Gos. transp. zheleznye dor. izd-vo. Vol. 9. [Electric  
railroad rolling stock] Elektropodvizhnoi sostav zheleznykh  
dorog. Otv. red. tona A.I. Tishchenko. 1957. 652 p. (MLRA 10:4)

1. Chlen-korrespondent Akademii nauk SSSR. (for Alekseyev)  
(Electric railroads--Rolling stock)

TRAKHTMAN, L.M.

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957, № 3,  
p. 130 (USSR) 112-3-5959

AUTHOR: Trakhtman, L.M.

TITLE: Study of Application of Regenerative and Rheostatic  
Braking for Motorcar Rolling Stock (Perspektivy  
primeneniya rekuperativno-reostatnogo tormozheniya na  
motorvagonnom podvizhnom sostave)

PERIODICAL: In Sbornik: Materialy nauch.-tekhn. soveshchaniya po  
tyagovomu elektrooborudovaniyu

ABSTRACT: The operating advantages of regenerative braking and  
difficulties encountered in applying it to motorcars are  
listed. This type of braking is used to a great extent  
only in two cases: in the motorcars of the 600-volt  
London subway system, using a metadyne, and in the  
1,200-volt urban railroads in Hamburg, using a separate  
exciter with stabilizing resistance. The disadvantages  
of these systems are their large weight and complexity.  
A 3,300-volt regenerative and rheostatic motorcar braking  
system is proposed; the system is based on the following  
new principles: a) the use of traction motors which per-  
mit a wide range of control of magnetic flux and speed;

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Study of Application of Regenerative and Rheostatic Braking for  
Motorcar Rolling Stock 112-3-5959

b) permanent series connection of four motors with a commutator voltage of 825 v; c) use of an exciter with differential winding without stabilizing resistance; d) automatic switching from regenerative to rheostatic braking with self-excitation when the exciter is switched off; e) automatic substitution of rheostatic braking for regenerative braking in the event the network voltage rises excessively; f) preliminary switching on of rheostatic braking before the start of regeneration; g) the use of a stabilizing transformer, the primary winding of which is connected to the armature circuit of the traction motors, and the secondary winding to the circuit of the separate exciting winding of the exciter; h) automation of the entire braking operation, with a wide range of control of the braking power. The technical solution to all the above principles and the economic characteristics of the regenerative and rheostatic braking system are given. For runs of 2 km and 4 km at

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Study of Application of Regenerative and Rheostatic Braking for  
Motorcar Rolling Stock 112-3-5959

speeds of 45 km/hour and 63 km/hour, respectively, the power economy is 20% as compared with runs in which regeneration is not used. In addition, regenerative braking extends the range of economical speed of travel, which is computed by means of the formula

$$K = \frac{dA}{dv} \cdot \frac{v}{A}$$

where  $K$  - index expressing the ratio of increase in power consumption to the increase in train speed in relative units;  $A$  - power consumption;  $v$  - train speed. Computations show that for a 2-km run at a speed of 45 km/hour,  $K = 0.7$  when regeneration is employed, and  $K = 7.9$  without regeneration. For a 4-km run at 63 km/hour, the respective values obtained are  $K = 0.86$  and  $K = 4.95$ . Therefore, with regenerative braking the train speed can be increased without increasing power consumption. (The S.M. Kirov "Dynamo" Plant)

I.V.I.

ASSOCIATION: S.M. Kirov "Dynamo" Plant (Z-v "Dinamo" im. S.M. Kirova)  
Card 3/3

TRAKHTMAN, L. M.

112-3-5977

Translation from: Referativnyy Zhurnal, Elektrotehnika, 1957,  
Nr 3, p. 134 (USSR)

AUTHOR:

Trakhtman, L. M.

TITLE:

New Type of Electrical Equipment for Motorcar Trains  
(Elektrooborudovaniye motorvagonnoy sektsii novogo tipa)

PERIODICAL:

In Sbornik: Materialy nauch.-tekhn. soveshchaniya po  
tyagovomu elektrouborudovaniyu

ABSTRACT:

The "Dinamo" plant has developed new types of electrical equipment for suburban trains having greater speed and reliability. The traction motors are set in a frame support, which is provided with a propeller driving gear; the ДК-1065 motor has a 220-kw capacity at a speed of 1,215 RPM and voltage of 1,650 v. Organo-silicon insulation is used in a certain number of the traction motors. The motors provide a speed of up to 115-125 km/hour for a three-car train (consisting of one motorcar and two trailer cars). For protection of the electrical equipment, a new quick-acting circuit breaker of the B77-5 type, has been developed; it cuts off short-circuit of

Card 1/2

TRAKHTMAN, L. M., kandidat tekhnicheskikh nauk.

New system of recuperative-rheostat braking for electric suburban trains. Vest elektroprom 28 no.1:13-21 Ja '57. (MLRA 10:4)

1. Zavod "Dinamo" Ministerstva elektrotehnicheskoy promyshlennosti.  
(Railroads--Brakes)

STEPANOV, Aleksandr Dmitriyevich; EZRIN, Grigoriy Semenovich; VVERKHOGLYAD,  
Vasiliy Yefremovich; KUZNETSOV, Boris Georgiyevich; TRAKHTMAN,  
L.M., kand.tekhn.nauk, retsenzent; KAMENETSKIY, B.G., kand.tekhn.  
nauk, red.; NIKITIN, A.O., red.izd-va; MODEL', B.I., tekhn.red.

[Electric drive of diesel locomotives] Elektricheskaisa pere-  
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lit-ry, 1959. 292 p. (MIRA 12:8)  
(Diesel locomotives) (Electric driving)

GARRO, M. [Garreau, Marcel]; VISLOUKH, L.A., inzh. [translator]; TRAKHTMAN, L.M., kand.tekhn.nauk [translator]; IVANOV, I.I., kand.tekhn.nauk [translator]; ROZENFEL'D, V.Ye., prof., doktor tekhn.nauk, obshchiy red.; BOBROVA, Ye.N., tekhn.red.

[Electric traction] Elektricheskaiia tiaga. Pod obshchel red. V.E.Rozenfel'ds. Moskva, Gos.transp.zhel-dor.izd-vo, 1959. 386 p. Translated from the French. (MIRA 13:3)  
(Electric railroads)

TIKHMENEV, Boris Nikolayevich; TRAKHTMAN, Leonid Mironovich; SOKOLOV,  
L.S., inzh., red.; KHITROV, P.A., telchn.red.

[Rolling stock of electric railroads] Podvishnoi sostav  
elektricheskikh zheleznykh dorog. Izd.2., perer. i dop. Moskva,  
Gos.transp.zhel-dor.izd-vo. Pt.3. [Theory of operation of electrical  
equipment, electrical circuits and instruments] Teoriia raboty elektro-  
oborudovaniia, elektricheskie skhemy i apparaty. 1959. 416 p.

(MIRA 12:12)

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TRAKHTMAN, L.M., kand. tekhn. nauk

Study of transients in regenerative braking of electric  
trains using analog computers. Elektrotehnika 34 no.11:  
39-44 N '63. (MIRA 17:2)

PETROV, Boris Petrovich; STEPANOV, Aleksandr Dmitriyevich; MINOV, D.K., prof., retsenzent; DAVYDOV, M.A., dots., retsenzent; KOSAREV, G.V., dots., retsenzent; TRAKHTMAN, L.M., dots., retsenzent; SIDOROV, N.I., red.; LARIONOV, G.Ye., tekhn. red.

[Electrical equipment and automation of electric rolling stock] Elektricheskoe oborudovanie i avtomatizatsiia elektricheskogo podvizhnogo sostava. Izd.2., perer. i dop. Moskva, Gosenergoizdat, 1963. 303 p. (MIRA 17:3)

RUBCHINSKIY, Zigmund Moiseyevich, kand. tekhn. nauk; TASTEVEN, Yevgeniy Edmundovich, inzh.; SHIRIYAYEV, Arkadiy Pavlovich, inzh.; DOLMATOV, A.A., kand. tekhn. nauk, retsenzent; LIBMAN, G.M., inzh., retsenzent; NAKHODKIN, M.D., kand. tekhn. nauk, retsenzent; SAZONOV, I.A., inzh., retsenzent; TRAKHTMAN, L.M., kand. tekhn. nauk, retsenzent; ZUBLEVSKIY, S.M., inzh., red.; RAKOV, V.A., inzh., red.; USENKO, L.A., tekhn. red.

[Design, arrangement, and working principles of the rolling stock of multiple-unit trains] Ustroistvo i rabota motorvagono podvizhnogo sostava. Moskva, Transzheldorizdat, 1962.  
335 p. (MIRA 16:1)

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YEFREMOV, Ivan Semenovich; MARKOVNIKOV, V.L., doktor tekhn. nauk,  
nauchnyy red.; TAKETMAN, L.M., kand. tekhn. nauk, dots.,  
nauchnyy red.; OTOCHEVA, M.A., red. izd-va; LELEYUKHIN, A.A.,  
tekhn. red.

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teoriia, konstruktsija i raschet. Izd.2., ispr. i dop. Moskva,  
Izd-vo M-va kommun.khoz.RSFSR, 1962. 494 p. (MIRA 15:7)  
(Trolley buses)

PRAKHTIAN, Leonid Mironavten; GORCHAKOVA, G.D., red.

[Regenerative braking of electric rolling stock] Elektricheskoe tormozhenie elektrosvivizhennogo sostava. /7. et.  
Transport, 1965. 20] p. (MIR) 15-1

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CIA-RDP86-00513R001756430001-4

TRAKHTMAN, N. N., VIGOLEV, N. A., LITVINSKAYA, N. F.

"Hygienic effectiveness of control of the centralized water supply and sanitary conditions of reservoirs in the city of Moscow.

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 04/03/2001

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CA

14

**Chlorine dioxide in water disinfection.** N. N. Trakhteman. *Gigiena i Sanit. 11, No. 19, 19-13(1963)*.  $\text{ClO}_2$  has a stable bactericidal effect at 5 mg. l. with *E. coli* cultures; 1 mg. l. shows bactericidal action after 30-min. contact. *B. anthracoides* gave bacterial indications only after 15 min. with 50 mg. l.; chlorinated lime gave bactericidal effect in the latter case only at 250 mg. l. after 0.5-hr. contact. Treatment of *E. coli*-contaminated water requires 0.6 mg. l., although 0.2-0.4 lowers the count from 800,000/ml. to isolated individuals in 5 min. Suspended matter (clay, etc.) lowers the effectiveness of  $\text{ClO}_2$ , but even here the use of 1 mg. l. is sufficient for bactericidal action. Increased alkalinity lowers the potency of  $\text{ClO}_2$  with a significant drop occurring at pH 9. High carbonate hardness also lowers its effectiveness. Presence of both high carbonate and much org. matter requires an increase of dosage to 4-5 mg. l. Waters contg.  $\text{PhOH}$  do not develop a chlorophenol odor on addn. of 0.5-1 mg. l.  $\text{ClO}_2$  even at 1:1,000,000 diln., a decided advantage over Cl treatment. G. M. Kovalapoff

CA

14

Determination of active chlorine in water. N. N. Trakhman. *Gispon i Sait. 13, No. 7, 9-11 (1948).* - Active Cl must be detd. at the natural pH of the test sample without acidification, since adjustment of pH changes the active Cl content. Thus, a sample contg. 78-85% of initial charge of active Cl (calcd. from Ca hypochlorite added) at pH 5.3 gives but 68-70% at pH 6.8 and 63.5-69% at pH 8.0. The actual "natural" concn. is the only significant value in water purification. - G. M. Kowalapoff

ASB-LSA METALLURGICAL LITERATURE CLASSIFICATION

1949 51102184

1949 51102184

112

CA

Oxidation-reduction potentials and bactericidal effect of chlorine and chlorine-containing substances. N. N. Frakhman (Med. Inst., Moscow). *Gigiena i Sanit.* 1949, No. 2, 13-19. - Dets. of oxidation-reduction potentials and the bactericidal activity of Ca hypochlorite,  $\text{Cl-H}_2\text{O}$ , Chloramine-T, and  $\text{ClO}_3$  solns. showed that the oxidation-reduction potentials of the 1st 3 decline sharply at pH values over 4-5, while those of the last 2 are quite stable and the effect is greatest in lowest concn. of the solns. The oxidation-reduction potentials of these solns. exceed the potential of the bacteria cultures and the bactericidal effect parallels the oxidation-reduction potential, giving an ascending series: hypochlorite,  $\text{Cl-H}_2\text{O}$ ,  $\text{ClO}_3$  and Chloramine-T. G. M. Kovalapoff

CH

**Oxidation-reduction potential as an index in water**

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G. M. Kowalipoff

1954-1955, 22-12

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Vol. 48 No. 5  
Mar. 10, 1954  
Water, Sewage, and Sanitation

Use of chlorine dioxide in purification of water. T. S. Bedulovich, M. N. Svetlakova, and N. N. Trakhman (1st Moscow Med. Inst., Ministry Health, U.S.S.R.) *Gigiena i Sanit.* 1953, No. 10, 14-17.—The bactericidal activity of ClO<sub>2</sub> against *Escherichia coli*, *Salmonella typhosa*, and *S. paratyphi* exceeds or at least equals that of Cl. Its stability is greater than that of residual Cl<sub>2</sub> or chloramine in treated waters. ClO<sub>2</sub> has no advantages over Cl<sub>2</sub> for decolorizing water. G. M. Kosolapoff

SOKOLOVSKIY, M.S., otvetstvennyy red.; VEBER, L.G., red.; MUROVANNAYA, S.I.,  
red.; KUDRINSKIY, I.N., red.; TRAKHTMAN, N.N., red.; CHERNIKOV, A.P.,  
red.; YEVDOKIMOVA, Z.N., tekhn.red.

[Abstracts of works based on practical experience (1952-1954)]  
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(Moscow Province--Water--Pollution)

TRAKHTMAN, N.N.

"Installations for the purification of sewage in West European countries"; a review. Reviewed by N.N.Trakhtman. Gig. i san. 22 no.3:90-91 Mr '57. (MLRA 10:6)  
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MARSHY, Aleksandr Nikolayevich; TRAKHTMAN, N.N., red.; SHNCHILO, K.K., tekhn.  
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[Sanitary protection of open waters from contamination by radioactive substances] Sanitarnaia ohrana otkrytykh vodoemov ot zagiazneniya radioaktivnymi veshchestvami. Moskva, Gos. izd-vo med. lit-ry, 1958. 89 p. (MIRA 11:7)  
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BEREZOVAYA, M.K., [deceased],; BORISENKOVA, R.V.,; IZRAEL'SON, Z.I., prof.;  
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H.N., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

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1. Galen-korrespondent AMN SSSR (for Cherkinskiy)  
(FLUORIDATION  
of drinking water, review)

CHERKINSKIY, S.N., prof., TRAKHTMAN, N.N., kand.med.nauk

Problem of practical water fluoridation. Gig i san. 23 no.9147-50  
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1. Chlen-korrespondent AMN SSSR (for Cherkinskiy).  
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TRAKHTMAN, N.N., kand. med. nauk.

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chlorine as disinfectant, mechanism of action (Rus))

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TRAKHTMAN, N.N.

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Congress of Hygienists and Sanitary Physicians. Gig. i san. 25  
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CHERKINSKIY, Samuil Naumovich; TRAKHTMAN, Nadezhda Naumovna; KHAMIDULLIN,  
R.S., red.; BALDINA, N.F., tekhn.red.

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BELYAYEV, I.I., prof.; BLOKH, S.S., kand. med. nauk; GABOVICH, R.D., prof.; GORBOV, V.A., dots.; ZHAEOTINSKIY, V.M., prof.; ZASLAVSKAYA, R.E., kand. med. nauk; KIBAL'CHICH, I.A., kand. med. nauk; KROTKOV, F.G., prof.; MOGILEVSKIY, Ya.A., kand. med. nauk [deceased]; TRAKHTMAN, N.N., dots.; CHERKINSKIY, S.N., prof.; GOROMOSOV, M.S., doktor med. nauk, red.; RYAZANOV, V.A., prof., red.; BUSHUYEVA, K.A., dots., red.; SELESKIRIDI, I.G., dots., red.; OSTROVSKHOV, G.Ye., prof., glav. red.; PETROVA, N.K., tekhn. red.

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KIBAL'CHICH, Irina Alekseyevna; TRAKHTMAN, N.N. red.

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ACC NR: AT6022672 SOURCE CODE: UR/0000/06/000/000/0053/0059

50  
48  
B+1

AUTHOR: Trakhtman, V. Yu.

ORG: none

TITLE: Matrix method of recognizing images and certain problems of constructing standards

SOURCE: Moscow, Institut avtomatiki i telemekhaniki, Samoobuchayushchiyesya avtomaticheskiye sistemy (Self-instructing automatic systems). Moscow, Izd-vo Nauka, 1966, 53-59

TOPIC TAGS: scientific standard, pattern recognition, speech recognition, character recognition, mathematic matrix

ABSTRACT: The matrix method of recognizing images examined in this article is based on the idea of processing the descriptions of objects by statistical methods. The basic characteristics of the method are as follows: 1) the criterion of recognition by common metric characters, i.e., the mutual differences between isolated points of space; 2) class standards are selected by the principle of isometric invariance; 3) Boolean space is used. By applying the algorithm of the measurement of common metric characters in Boolean space it is possible to realize machine recognition since here the statistic itself is used as the standard and the signs of

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ACC NR: AT6022672

recognition remain non-isolated in the standard. Usually, standard methods of recognition are characterized by a certain limitation as a consequence of the use of various specific signs when simulating standards. In this case the specific character of the objects determines the selection of the element of description. Nevertheless, further processing, even up to construction of the standards, is completely unified. The author points out that Boolean space is used because the procedure of calculating the statistical characteristics of scattering, such as variance, is substantially simplified, which makes the algorithm advantageous in practice. Small experiments on recognizing hand-written letters and sounds of Russian speech were carried out by this method. These experiments confirmed the initial premises and will be continued on an expanded scale. The author thanks Cand. of Technical Sciences V. G. Frolushkin and I. N. Litvak for help in conducting this study. Orig. art. has: 16 formulas.

SUB CODE: 05, <sup>09</sup>~~08~~, 12/ SUBM DATE: 02Mar66/ ORIG REF: 003

Card 2/2 *egf*

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Yu.S., tekhn. red.

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(FIRST AID IN ILLNESS AND INJURY)

TRAKHTMAN, Ya. N.

ARKHANGEL'SKIY, Vladimir Georgiyevich; KONDRAT'YEV, Viktor Alekseyevich;  
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(Students)

38273 YRAKHTMAN, YA. N.

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37614

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TRAKHIMAN, Ya.N. (Moskva)

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(MEDICINE IN LITERATURE)  
(HEALTH EDUCATION)

TRAKHTMAN, Yakov Naumovich.

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26-27 N '54. (MIRA 7:12)  
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group reading of popular materials)  
(READING  
group reading in health educ.)

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TRIKHMAN, YA. N. Voroshinskoye Dvizheniye Za Chistotu  
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